Product Name: Kpm Rabbit Polyclonal Antibody
Catalog #: APRab13099
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	IHC,ICC/IF,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
Molecular Weight	

Antigen Information

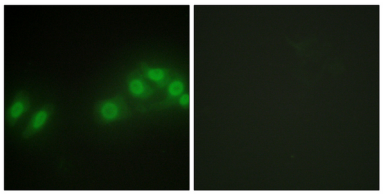
Gene Name	LATS2
Alternative Names	LATS2; KPM; Serine/threonine-protein kinase LATS2; Kinase phosphorylated during mitosis protein; Large tumor suppressor homolog 2; Serine/threonine-protein kinase kpm; Warts-like kinase
Gene ID	26524.0
SwissProt ID	Q9NRM7
Immunogen	The antiserum was produced against synthesized peptide derived from human LATS2. AA range:541-590

Background

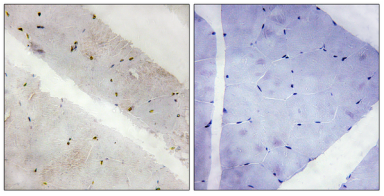
This gene encodes a serine/threonine protein kinase belonging to the LATS tumor suppressor family. The protein localizes to centrosomes during interphase, and early and late metaphase. It interacts with the centrosomal proteins aurora-A and ajuba and is required for accumulation of gamma-tubulin and spindle formation at the onset of mitosis. It also interacts with a negative regulator of p53 and may function in a positive feedback loop with p53 that responds to cytoskeleton damage. Additionally, it can function as a co-repressor of androgen-responsive gene expression. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,function:Tumor suppressor which plays a critical role in centrosome duplication, maintenance of mitotic fidelity and genomic stability. Negatively regulates G1/S transition by down-regulating cyclin E/CDK2 kinase activity. Negative regulator of the androgen receptor.,PTM:Autophosphorylated and phosphorylated during M-phase and the G1/S-phase of the cell cycle. Phosphorylated and activated by STK3.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 UBA domain.,subcellular location:Co-localizes with STK6 at the centrosomes during interphase, early prophase and cytokinesis. Migrates to the spindle poles during mitosis, and to the midbody during cytokinesis.,subunit:Interacts with and is phosphorylated by STK6. Binds to AR. Interacts with JUB during mitosis and this complex regulates organization of the spindle apparatus through recruitment of gamma-tubulin to the centrosome.,tissue specificity:Expressed at high levels in heart and skeletal muscle and at lower levels in all other tissues examined.,

Research Area

Image Data



Immunofluorescence analysis of HepG2 cells, using LATS2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using LATS2 Antibody. The picture on the right is blocked with the synthesized peptide.